

ABSTRACT OF THE DISCLOSURE

Input side(s) is/are made up of input signal coupling circuit(s) subjecting input signal(s) at respective channel(s) to time division so as to form a single consolidated signal, and a single light-emitting element communicating such signal to output side(s); output side(s) is/are made up of a single light-receiving element receiving time-divided signal(s) from light-emitting element(s) at input side(s), amplifier circuit(s) carrying out amplification of received time-divided signal(s) so as to obtain constant level(s), and output signal separation circuit(s) decoding amplified time-divided signal(s) and outputting same to respective channel(s).